THE ONLINE MONITORING FOR PHOTON MULTIPLICITY DETECTOR

DEBASISH DAS

The ONLINE Monitoring for PMD will be used to analyse the data and also have an idea of the detector behaviour during the actual beam-time.

It reads the data from a event pool where it is stored(temporarily) and then later read for the analysis purpose.

It has parts and different sections which contribute to it's utimate completion.

PMDONLINEGUI
StPmdONLINEUtil
StPMDUtil
StPMDOnlineMaker

The different sections

- PMDOnlineGUI---->This takes care of the graphics window and also when the START button is activated it reads the data file and terminates with STOP.
- Also it has a control button for BROWSE RESULTS which links it directly to the ROOT Browser.

StPMDOnlineUtil

In THIS maker DATA is READ for the PMD and all the information is filled in the form of StEvent or Arrays.

StPMDUtil

Here we use the StPMDgeom files to read the chain mappings.

StPMDOnlineMaker

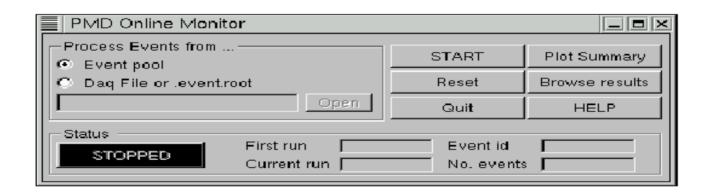
This MAKER READS StEvent and books/fills the Histogramswhich will be used for the eventual DISPLAY.

Here there is a HIERARCHY which starts from THE PMD PATCH under which it creates the MODULES which is further divided to PMD & CPV.

The SuperModules under the respective PMD and CPV are then again divided as usual into ROWS AND COLUMNS further enabling the HITS to be identified.

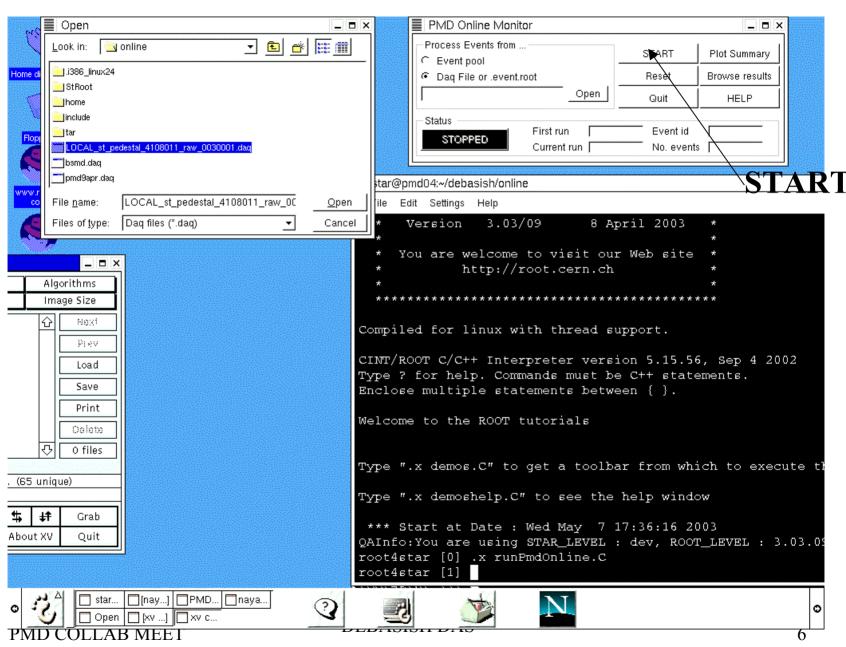
THE PMD DISPLAY ON SCREEN

STEPS TO START ONLINE ---->

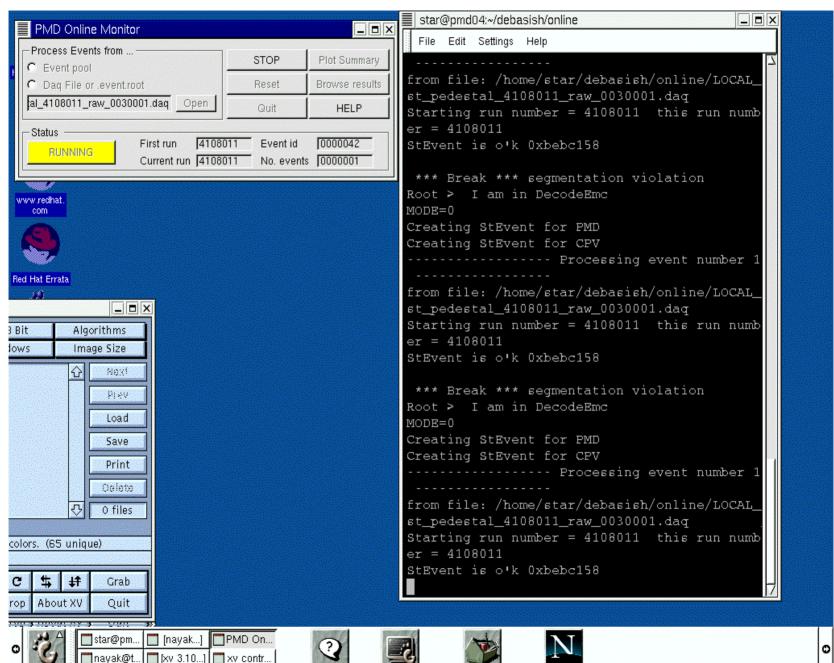


- 1)Run root4star
- 2)root4star] .x runPmdOnline.C

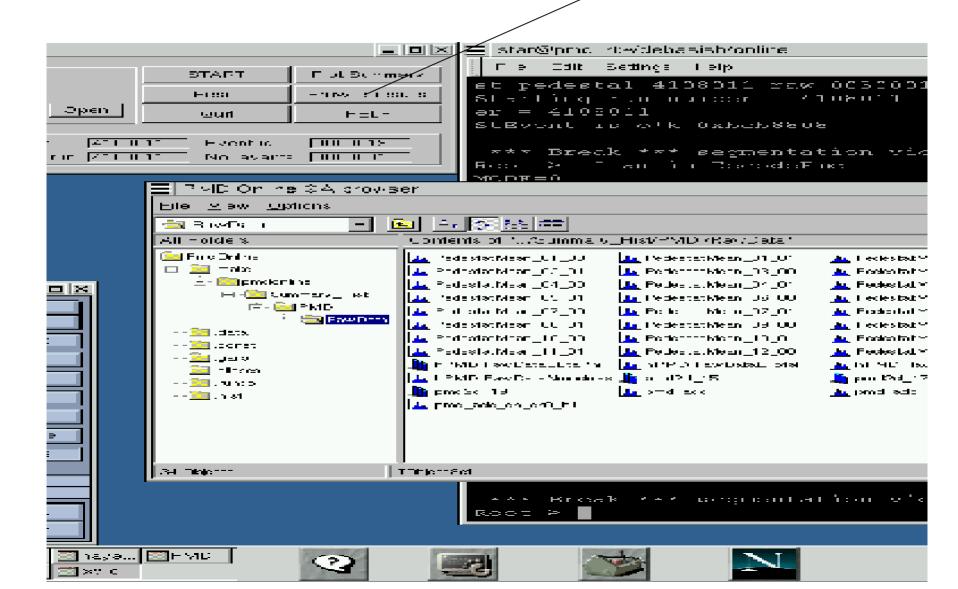
What we see on the SCREEN......



See YELLOW! PMD RUNNING.....



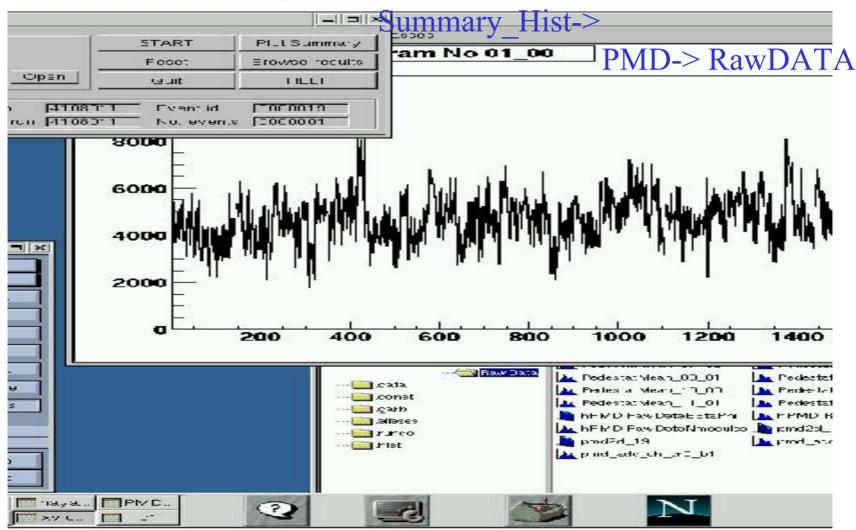
STOP after some events and OPEN BROWSER in ROOT



Click PMDOnline ->

.make ->

pmdonline ->



IF CELL by CELL INFO required CLICK pmdonline->PmdDetail and see the CELLS!

